

CLAIMS

What is claimed is:

- 1 1. A machine implemented method of operation comprising  
2 determining cross application function/service classifications of exportable  
3 data of an application; and  
4 exporting said exportable data of said application in a cross application  
5 function/service based manner, based at least in part on said determined cross  
6 application function/service classifications of said exportable data.
- 1 2. The method of claim 1, wherein said determining of cross application  
2 function/service classifications of exportable data of an application comprises  
3 determining the cross application function/service classifications of data specified in  
4 data publication statements of the application.
- 1 3. The method of claim 2, wherein the method further comprises retrieving said  
2 data publication statements of the application.
- 1 4. The method of claim 3, wherein said retrieving of the data publication  
2 statements of the application comprises retrieving the data publication statements  
3 from a descriptor of the application.
- 1 5. The method of claim 2, wherein said data specifications reference data  
2 having cross application function/service based classifications of a cross application  
3 function/service based data classification model.

1 6 The method of claim 5, wherein said data specifications comprise encoded  
2 binary references referencing said data having cross application function/service  
3 based classifications of a cross application function/service based data classification  
4 model.

1 7. The method of claim 1, wherein the method further comprises  
2 retrieving said exportable data of said application; and  
3 storing said retrieved data of said application in a plurality of datasets that are  
4 organized in accordance with said cross application function/service classifications.

1 8. The method of claim 7, wherein said retrieving of exportable data of said  
2 application comprises retrieving exportable control data of said application from  
3 control data files of said application.

1 9. The method of claim 7, wherein said retrieving of exportable data of said  
2 application comprises retrieving user data of said application from an operating  
3 environment within which said application executes.

1 10. The method of claim 7, wherein said storing comprises correspondingly  
2 storing said retrieved data into datasets organized for the cross application  
3 functions/services to which the data are associated.

1 11. The method of claim 10, wherein said storing further comprises storing meta  
2 data into each of said datasets describing the data stored in each of the datasets.

1 12. The method of claim 11, wherein each of said storing of meta data comprises  
2 storing an encoded binary representation having at least a portion referencing data  
3 having cross application function/service classification of a cross application  
4 function/service classification model.

1 13. The method of claim 11, wherein each of said storing of meta data comprises  
2 storing an encoded binary representation having at least a portion identifying the  
3 application as the publisher of the data.

1 14. The method of claim 13, wherein said portion of the encoded binary  
2 representation includes among its identification of the application, functions/services  
3 provided by the application.

1 15. The method of claim 1, wherein the method further comprises discovering  
2 presence of said application.

1 16. The method of claim 15, wherein said discovering comprises  
2 retrieving a plurality of presence criteria of said application; and  
3 determining if the presence criteria are met.

1 17. The method of claim 16, wherein said retrieving comprises retrieving said  
2 plurality of presence criteria from a descriptor of said application.

1 18. The method of claim 16, wherein said determining if the presence criteria are  
2 met comprises accessing a registry of an operating environment within which said  
3 application is installed to verify if said presence criteria are met.

1 19. A machine implemented method of operation comprising  
2 retrieving a plurality of data publication statements of an application;  
3 determining exportable data of said application based on data publication  
4 specifications of said data publication statements; and  
5 exporting said exportable data of said application, based at least in part on  
6 said data publication specification of said data publication statements of said  
7 application.

1 20. The method of claim 19, wherein said retrieving of the data publication  
2 statements of the application comprises retrieving the data publication statements  
3 from a descriptor of the application.

1 21. The method of claim 19, wherein said data publication specifications  
2 reference data having cross application function/service based classifications of a  
3 cross application function/service based data classification model.

1 22. The method of claim 21, wherein said data publication specifications comprise  
2 encoded binary references referencing said data having having cross application  
3 function/service based classifications of a cross application function/service based  
4 data classification model.

1 23. The method of claim 19, wherein the method further comprises discovering  
2 presence of said application.

1 24. The method of claim 23, wherein said discovering comprises  
2 retrieving a plurality of presence criteria of said application; and  
3 determining if the presence criteria are met.

1 25. The method of claim 24, wherein said retrieving comprises retrieving said  
2 plurality of presence criteria from a descriptor of said application.

1 26. The method of claim 24, wherein said determining if the presence criteria are  
2 met comprises accessing a registry of an operating environment within which said  
3 application is installed to verify if said presence criteria are met.

1 27. A machine implemented method of operation comprising  
2 retrieving a plurality of presence criteria of an application;  
3 determining if the presence criteria are met;  
4 if so, further determining exportable data of said application; and  
5 exporting said exportable data of said application.

1 28. The method of claim 27, wherein said retrieving comprises retrieving said  
2 plurality of presence criteria from a descriptor of said application.

1 29. The method of claim 27, wherein said determining if the presence criteria are  
2 met comprises accessing a registry of an operating environment within which said  
3 application is installed to verify if said presence criteria are met.

1 30. An article of manufacture comprising:

2 a storage medium having a recordable medium; and

3 a plurality of machine readable programming instructions recorded on said  
4 recordable medium of said storage medium, designed to program an apparatus to  
5 enable the apparatus to

6 determine cross application function/service classifications of exportable  
7 data of an application executing on the apparatus, and  
8 export said exportable data of said application in a cross application  
9 function/service based manner, based at least in part on said  
10 determined cross application function/service classifications of said  
11 exportable data.

1 31. The article of claim 30, wherein said programming instructions are designed  
2 to enable said apparatus to perform said determining of cross application  
3 function/service classifications of exportable data of an application by determining  
4 the cross application function/service classifications of data specified in data  
5 publication statements of the application.

1 32. The article of claim 31, wherein said programming instructions are further  
2 designed to enable the apparatus to retrieve said data publication statements of the  
3 application.

1 33. The article of claim 32, wherein said programming instructions are designed  
2 to enable the apparatus to perform said retrieving of the data publication statements

3 of the application by retrieving the data publication statements from a descriptor of  
4 the application.

1 34. The article of claim 31, wherein said data specifications reference data  
2 having cross application function/service based classifications of a cross application  
3 function/service based data classification model.

1 35 The article of claim 34, wherein said data specifications comprise encoded  
2 binary references referencing said data having cross application function/service  
3 based classifications of a cross application function/service based data classification  
4 model.

1 36. The article of claim 30, wherein said programming instructions are further  
2 designed to enable the apparatus to  
3 retrieve said exportable data of said application, and  
4 store said retrieved data of said application in a plurality of datasets that are  
5 organized in accordance with said cross application function/service classifications.

1 37. The article of claim 36, wherein said programming instructions are designed  
2 to enable the apparatus to perform said retrieving of exportable data of said  
3 application by retrieving exportable control data of said application from control data  
4 files of said application.

1 38. The article of claim 36, wherein said programming instructions are designed  
2 to enable the apparatus to perform said retrieving of exportable data of said

3 application by retrieving user data of said application from an operating environment  
4 on said apparatus within which said application executes.

1 39. The article of claim 36, wherein said programming instructions are designed  
2 to enable the apparatus to perform said storing by correspondingly storing said  
3 retrieved data into datasets organized for the cross application functions/services to  
4 which the data are associated.

1 40. The article of claim 39, wherein said programming instructions are further  
2 designed to enable the apparatus to include with said performance of said storing,  
3 storing of meta data into each of said datasets describing the data stored in each of  
4 the datasets.

1 41. The article of claim 40, wherein each of said storing of meta data comprises  
2 storing an encoded binary representation having at least a portion referencing data  
3 having cross application function/service classification of a cross application  
4 function/service classification model.

1 42. The article of claim 40, wherein each of said storing of meta data comprises  
2 storing an encoded binary representation having at least a portion identifying the  
3 application as the publisher of the data.

1 43. The article of claim 42, wherein said portion of the encoded binary  
2 representation includes among its identification of the application, functions/services  
3 provided by the application.



1 44. The article of claim 30, wherein said programming instructions are further  
2 designed to enable the apparatus to discover presence of said application on said  
3 apparatus.

1 45. The article of claim 44, wherein said programming instructions are designed  
2 to enable the apparatus to perform said discovering by  
3 retrieving a plurality of presence criteria of said application; and  
4 determining if the presence criteria are met.

1 46. The article of claim 45, wherein said programming instructions are designed  
2 to enable the apparatus to perform said retrieving by retrieving said plurality of  
3 presence criteria from a descriptor of said application.

1 47. The article of claim 45, wherein said programming instructions are designed  
2 to enable the apparatus to perform said determining if the presence criteria are met  
3 by accessing a registry of an operating environment of the apparatus within which  
4 said application is installed to verify if said presence criteria are met.

1 48. The article of claim 30, wherein said article and said apparatus are one of the  
2 same, and said article/apparatus further comprises at least one processor coupled  
3 to the storage medium to execute the programming instructions.

1 49. The article of claim 48, wherein said article/apparatus is a selected one of a  
2 wireless mobile phone, a palm sized computing device, a notebook sized computing  
3 device, a desktop computing device, a set-top box and a server.

1 50. An article of manufacture comprising a storage medium having a  
2 recordable medium; and  
3 a plurality of machine readable programming instructions recorded in said  
4 recordable medium of said storage medium, designed to program an apparatus to  
5 enable the apparatus to  
6 retrieve a plurality of data publication statements of an application of the  
7 apparatus,  
8 determine exportable data of said application based on data publication  
9 specifications of said data publication statements, and  
10 export said exportable data of said application, based at least in part on  
11 said data publication specification of said data publication statements  
12 of said application.

1 51. The article of claim 50, wherein said programming instructions are designed  
2 to enable the apparatus to perform said retrieving of the data publication statements  
3 of the application by retrieving the data publication statements from a descriptor of  
4 the application.

1 52. The article of claim 50, wherein said data publication specifications reference  
2 data having cross application function/service based classifications of a cross  
3 application function/service based data classification model.

1 53. The article of claim 50, wherein said data publication specifications comprise  
2 encoded binary references referencing said data having having cross application  
3 function/service based classifications of a cross application function/service based  
4 data classification model.

1 54. The article of claim 50, wherein said programming instructions are further  
2 designed to enable the apparatus to discover presence of said application in said  
3 apparatus.

1 55. The article of claim 54, wherein said programming instructions are designed  
2 to enable the apparatus to perform said discovering by  
3 retrieving a plurality of presence criteria of said application; and  
4 determining if the presence criteria are met.

1 56. The apparatus of claim 55, wherein said programming instructions are  
2 designed to enable the apparatus to perform said retrieving by retrieving said  
3 plurality of presence criteria from a descriptor of said application.

1 57. The article of claim 55, wherein said programming instructions are designed  
2 to enable the apparatus to perform said determining if the presence criteria are met  
3 by accessing a registry of an operating environment within which said application is  
4 installed to verify if said presence criteria are met.

1 58. The article of claim 50, wherein said article and said apparatus are one of the  
2 same, and said article/apparatus further comprises at least one processor coupled  
3 to the storage medium to execute the programming instructions.

1 59. The article of claim 58, wherein said article/apparatus is a selected one of a  
2 wireless mobile phone, a palm sized computing device, a notebook sized computing  
3 device, a desktop computing device, a set-top box and a server.

1 60. An article of manufacture comprising  
2 a storage medium having a recordable medium; and  
3 a plurality of machine readable programming instructions recorded on said  
4 recordable medium of said storage medium, designed to program an apparatus to  
5 enable the apparatus to  
6 retrieve a plurality of presence criteria of an application of said apparatus,  
7 determine if the presence criteria are met,  
8 if so, further determine exportable data of said application, and  
9 export said exportable data of said application.

1 61. The article of claim 60, wherein said programming instructions are designed  
2 to enable the apparatus to perform said retrieving by retrieving said plurality of  
3 presence criteria from a descriptor of said application.

1 62. The article of claim 60, wherein said programming instructions are designed  
2 to enable the apparatus to perform said determining if the presence criteria are met  
3 by accessing a registry of an operating environment within which said application is  
4 installed to verify if said presence criteria are met.

1 63. The article of claim 60, wherein said article and said apparatus are one of the  
2 same, and said article/apparatus further comprises at least one processor coupled  
3 to the storage medium to execute the programming instructions.

1 64. The article of claim 63, wherein said article/apparatus is a selected one of a  
2 wireless mobile phone, a palm sized computing device, a notebook sized computing  
3 device, a desktop computing device, a set-top box and a server.

1